

Appl. No.: 10/789,289
TC/A.U.: 3711 Docket No.: B04-05
Reply to Office Action of September 29, 2004

LISTING OF CLAIMS

Please amend the claims as follows:

1. (Currently amended) A ball comprising a thin dense layer encasing a core, wherein the thin dense layer is encased by a cover, the thin dense layer is comprised of a fully neutralized ionomer and has an inner diameter of at least 38.4 mm, has a specific gravity of greater than 1.2, has a thickness from 0.025 mm to 1.27 mm and is positioned at a distance of less than 4.83 mm from the surface of the ball, wherein the thin dense layer is a non-continuous layer.
2. (Cancelled).
3. (Currently amended) The golf ball of claim [[2]] 1, wherein the non-continuous layer is formed of a material that further comprises a polyolefin.
4. (Currently amended) The golf ball of claim [[3]] 1, wherein the non-continuous layer is formed of a material that further comprises a copolymer of polyethylene and an acrylic or methacrylic acid.
5. (Original) The golf ball of claim 4, wherein the non-continuous layer comprises a terpolymer of ethylene, a softening acrylate class ester selected from the group of methyl acrylate, n-butyl-acrylate and iso-butyl-acrylate, and a unsaturated carboxylic acid selected from the group of acrylic acid and methacrylic acid.
6. (Currently amended) The golf ball of claim 1, wherein the ~~thin dense layer is a non-~~continuous layer ~~and is~~ further comprised of a material selected from a group consisting of metallocene catalyzed polyolefins, polyesters, polyamides, non-ionomeric thermoplastic elastomers, copolyether-esters, copolyether-amides, thermoplastic or thermosetting polyurethanes, polyureas, polyurethane ionomers, epoxies, polycarbonates, polybutadiene, polyisoprene, and blends thereof.

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7. (Currently amended) The golf ball of claim 1, wherein the non-continuous layer further comprises fibers.
8. (Original) The golf ball of claim 7, wherein the fibers are selected from a group consisting of carbon graphite, glass, aramid, polyester, polyethylene, polypropylene, silicon carbide, boron carbide, natural and synthetic silk.
9. (Original) The golf ball of claim 1, wherein the cover has a Shore D hardness of less than about 65.
10. (Original) The golf ball of claim 9, wherein the cover has a Shore D hardness of between about 30 and about 60.
11. (Original) The golf ball of claim 10, wherein the cover has a Shore D hardness of between about 35 and about 50.
12. (Original) The golf ball of claim 11, wherein the cover has a Shore D hardness of between about 40 and about 45.
13. (Currently Amended) The ball of claim 1, wherein the specific gravity of the non-continuous layer is greater than 1.5.
14. (Original) The ball of claim 13, wherein the specific gravity of the non-continuous layer is greater than 1.8.
15. (Original) The ball of claim 14, wherein the specific gravity of the non-continuous layer is greater than 2.0.
16. (Currently Amended) The ball of claim 1, wherein the thickness of the non-continuous layer is from 0.127 mm to 0.76 mm.

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17. (Original) The ball of claim 16, wherein the thickness of the non-continuous layer is from 0.25 mm to 0.5 mm.
18. (Original) The ball of claim 1, wherein the core has a specific gravity of less than 1.0.
19. (Currently Amended) The ball of claim ~~[[2]]~~ 1, wherein the core has a specific gravity of less than 0.9.
20. (Original) The ball of claim 1, wherein the core is made from a foamed material.